

IN THE CLAIMS

1. (Currently Amended) An aqueous sizing composition for glass fibers, said sizing composition being compatible with a phenolic pultrusion process comprising:
 - 1 - 7 percent by weight of a polyamide film forming polymer;
 - 0.5 - 3.0 percent by weight of an organosilane coupling agent;
 - 0.5 - 3.0 percent by weight of a non-ionic lubricant, said non-ionic lubricant being a polyoxyalkylated polyalkylene glycol ester;
 - 0.2 - 3.5 percent by weight of a cationic lubricant, said cationic lubricant being a partially amidated polyalkylene imine;
 - greater than 0 and up to 3 percent by weight of a solvent-free water dispersible aliphatic polyether based polyurethane solution; and
 - water in an amount sufficient to attain a desired ratio of solids.
- 2.-3 (Canceled)
4. (Currently Amended) The sizing composition of claim 1-3, wherein the non-ionic lubricant is polyethylene glycol mono-oleate.
5. (Canceled)
6. (Previously Presented) The sizing composition of claim 1, wherein the organosilane coupling agent is selected from the group consisting of gamma-aminopropyltriethoxy silane, N-beta (aminoethyl) gamma-aminopropyltrimethoxy silane, vinyltrimethoxy silane, gamma-glycidoxypolypropyltrimethoxy silane and phenylaminopropyltrimethoxy silane.
7. (Canceled)
8. (Currently Amended) The sizing composition of claim 1-7, wherein the partially amidated polyalkylene imine is a condensation reaction product of polyethylene imine with at least one fatty acid selected from the group consisting of pelargonic acid and caprylic acid.

9. (Original) The sizing composition of claim 1, wherein the sizing composition provides an increased compatibility between individual glass fibers and a matrix resin in a phenolic pultrusion process.

10. (Canceled)

11. (Currently Amended) A method of making an aqueous sizing composition for a glass fiber that is compatible with a phenolic pultrusion process comprising:

admixing 1 - 7 percent by weight of a polyamide film former, 0.5 - 3.0 percent by weight of an organosilane coupling agent, 0.5 - 3.0 percent by weight of a polyoxyalkylated polyalkylene glycol ester~~a non-ionic-lubricant~~, 0.2 - 3.5 percent by weight of a partially amidated polyalkylene imine~~a cationic-lubricant~~; greater than 0 and up to 3 percent by weight of a solvent-free water dispersible aliphatic polyether based polyurethane solution, and water in an amount sufficient to achieve a desired ratio of solids to form an admixture; and

agitating the admixture for a period of time sufficient to provide a homogenous composition.

12. (Canceled)

13. (Original) The method of claim 11, wherein the period of time sufficient to form an admixture is 5 - 10 minutes.

14. (Currently Amended) The method of claim 11, further comprising:

individually pre-mixing the film forming polymer, the organosilane coupling agent, the polyoxyalkylated polyalkylene glycol ester~~non-ionic-lubricant~~, and the partially amidated polyalkylene imine~~cationic-lubricant~~ in the water to form a pre-mix of each of the film forming polymer, the silane coupling agent, the polyoxyalkylated polyalkylene glycol ester~~non-ionic-lubricant~~, and the partially amidated polyalkylene imine~~cationic-lubricant~~.

15. (Original) The method of claim 14, wherein the pre-mix is maintained at a temperature of approximately 70 - 80 °F.

16. (Original) The method of claim 14, wherein the water is demineralized water.

17. (Original) A fiber product comprising at least one glass fiber coated with a sizing composition according to claim 1.

18. (Currently Amended) A method of forming a sized glass fiber comprising:
applying an aqueous sizing composition compatible with a phenolic pultrusion process to at least one glass fiber, the sizing composition including:

1 - 7 percent by weight of a polyamide film forming polymer;

0.5 - 3.0 percent by weight of a silane coupling agent;

0.5 - 3.0 percent by weight of a non-ionic lubricant;

0.2 - 3.5 percent by weight of a cationic lubricant;

greater than 0 and up to 3 percent by weight of a solvent-free water dispersible aliphatic polyether based polyurethane solution; and

water in an amount sufficient to achieve a desired ratio of solids; and

drying the sizing composition onto the at least one fiber to form a sized glass fiber;

wherein the sizing composition provides an increased compatibility between individual glass fibers and a matrix resin in the phenolic pultrusion process.

19. (Previously Presented) The method of claim 18, the silane coupling agent is an organosilane, the non-ionic lubricant is a polyoxyalkylated polyalkylene glycol ester, and the cationic lubricant is a partially amidated polyalkylene imine.

20.-25. (Canceled)